

Automobile Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
Economics and Statistics Administration
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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
336111, Automobile manufacturing 2002..	161	176	85 845	5 495 221	75 114	143 088	4 743 064	29 200 017	61 556 176	90 713 297	2 091 288
2001..	N	N	87 720	5 206 171	75 957	153 959	4 414 436	25 528 560	60 927 122	86 511 934	2 214 661
2000..	N	N	94 703	6 013 110	82 193	168 362	5 063 128	29 035 152	69 748 670	98 759 950	1 984 031
1999..	N	N	96 744	5 861 174	84 079	170 925	4 934 432	30 302 676	69 514 391	99 802 500	1 759 967
1998..	N	N	109 196	6 054 334	92 527	180 113	4 827 121	27 124 913	69 454 328	96 707 919	3 173 617
1997..	173	193	113 820	6 404 445	97 859	197 349	5 190 889	28 937 270	66 543 755	95 365 667	3 506 831

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
336111, Automobile manufacturing												
United States.....	—	176	52	85 845	5 495 221	75 114	143 088	4 743 064	29 200 017	61 556 176	90 713 297	'2 091 288
California	1	28	7	6 068	407 629	5 688	10 349	379 769	843 791	2 250 505	3 088 728	'43 865
Michigan.....	—	22	14	27 673	1 893 999	24 989	48 952	1 682 312	12 543 713	21 432 413	33 967 955	'478 636

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
336111, Automobile manufacturing	
Companies ¹	number.. 161
All establishments ²	number.. 176
Establishments with 1 to 19 employees	number.. 124
Establishments with 20 to 99 employees	number.. 20
Establishments with 100 employees or more	number.. 32
All employees ³	number.. 85 845
Total compensation	\$1,000.. 7 703 871
Annual payroll	\$1,000.. 5 495 221
Total fringe benefits	\$1,000.. 2 208 650
Production workers, average for year	number.. 75 114
Production workers on March 12	number.. 76 501
Production workers on May 12	number.. 75 342
Production workers on August 12	number.. 74 930
Production workers on November 12	number.. 73 667
Production worker hours	1,000.. 143 088
Production worker wages	\$1,000.. 4 743 064
Total cost of materials	\$1,000.. 61 556 176
Materials, parts, containers, packaging, etc., used	\$1,000.. 60 584 704
Resales	\$1,000.. 637 685
Purchased fuels	\$1,000.. 126 781
Purchased electricity	\$1,000.. 184 124
Contract work	\$1,000.. 22 882
Quantity of electricity purchased for heat and power	1,000 kWh.. 4 264 298
Quantity of electricity generated less sold for heat and power	1,000 kWh.. S
Total value of shipments	\$1,000.. 90 713 297
Primary products value of shipments	\$1,000.. 84 538 290
Secondary products value of shipments	\$1,000.. 5 390 801
Total miscellaneous receipts	\$1,000.. 784 206
Value of resales	\$1,000.. 734 385
Contract receipts	\$1,000.. D
Other miscellaneous receipts	\$1,000.. D
Primary products specialization ratio	percent.. 94
Value of primary products shipments made in all industries	\$1,000.. 85 841 068
Value of primary products shipments made in this industry	\$1,000.. 84 538 290
Value of primary products shipments made in other industries	\$1,000.. 1 302 778
Coverage ratio	percent.. 98
Value added	\$1,000.. 29 200 017
Total inventories, beginning of year	\$1,000.. 1 657 554
Finished goods inventories	\$1,000.. 72 743
Work-in-process inventories	\$1,000.. 378 932
Materials and supplies inventories	\$1,000.. 1 205 879
Total inventories, end of year	\$1,000.. 1 783 984
Finished goods inventories	\$1,000.. 85 837
Work-in-process inventories	\$1,000.. 408 734
Materials and supplies inventories	\$1,000.. 1 289 413
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '26 694 904
Total capital expenditures (new and used)	\$1,000.. '2 091 288
Buildings and other structures (new and used)	\$1,000.. '325 339
Machinery and equipment (new and used)	\$1,000.. '1 765 949
Automobiles, trucks, etc., for highway use	\$1,000.. D
Computers and peripheral data processing equipment	\$1,000.. '80 360
All other expenditures for machinery and equipment	\$1,000.. D
Total retirements	\$1,000.. '1 557 954
Gross value of depreciable assets at end of year	\$1,000.. '27 228 238
Depreciation charges during year	\$1,000.. '2 200 161
Total rental payments	\$1,000.. 306 155
Buildings and other structures	\$1,000.. 124 535
Machinery and equipment	\$1,000.. 181 620
Total other expenses ⁴	\$1,000.. 2 465 901
Response coverage ratio ⁵	percent.. 100
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 187 416
Communications services ⁴	\$1,000.. 7 946
Legal services ⁴	\$1,000.. 7 327
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 3 413
Advertising and promotional services ⁴	\$1,000.. 4 019
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 34 079
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 21 252
Management consulting and administrative services ⁴	\$1,000.. 36 581
Taxes and license fees ⁴	\$1,000.. 79 073
All other expenses ⁴	\$1,000.. 2 084 795

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
336111, Automobile manufacturing											
All establishments	—	176	85 845	5 495 221	75 114	143 088	4 743 064	29 200 017	61 556 176	90 713 297	'2 091 288
Establishments with—											
1 to 4 employees	9	98	152	6 625	116	223	5 335	24 445	71 540	95 997	'1 069
5 to 9 employees	8	16	98	6 177	87	175	5 454	23 663	73 235	96 881	'1 110
10 to 19 employees	7	10	124	7 740	110	220	6 888	29 147	89 871	119 005	'6 362
20 to 49 employees	7	10	339	17 675	284	525	14 435	57 637	166 418	223 781	'2 719
50 to 99 employees	7	10	618	26 140	548	1 090	21 823	83 343	236 865	318 920	'3 953
100 to 249 employees	6	7	g	D	D	D	D	D	D	D	D
250 to 499 employees	—	1	e	D	D	D	D	D	D	D	D
500 to 999 employees	—	2	g	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	5	10 456	717 258	9 488	19 488	637 250	2 683 682	8 964 394	11 630 919	41 546
2,500 employees or more	—	17	70 780	4 506 188	61 713	115 852	3 881 830	24 756 142	49 815 128	74 547 294	1 960 668
Administrative records ⁴	9	103	260	14 262	219	430	12 211	57 398	175 919	233 308	'2 638

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
336111	Automobile manufacturing	176	85 845	5 495 221	75 114	143 088	4 743 064	29 200 017	61 556 176	90 713 297	'2 091 288
3361110	Automobile manufacturing	176	85 845	5 495 221	75 114	143 088	4 743 064	29 200 017	61 556 176	90 713 297	'2 091 288

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
336111	Automobile manufacturing	2002.. N	X	X	85 841 068
	1997.. N	N	X	X	93 215 637
3361110	Automobile manufacturing	2002.. N	X	X	85 841 068
	1997.. N	N	X	X	93 215 637
33611101	Complete passenger vehicles, knockdown or assembled, including passenger car chassis and nonarmored military automobiles	2002.. N	X	X	85 158 514
	1997.. N	N	X	X	92 806 528
3361110100	Complete passenger vehicles, knockdown or assembled, including passenger car chassis and nonarmored military automobiles	number.. 2002.. 37	X	5 171 658.0	85 158 514
	1997.. 47	X	S		92 806 528
3361110Y	Automobile manufacturing, nsk, total	2002.. N	X	X	682 554
	1997.. N	X	X	X	409 109
3361110YWW	Automobile manufacturing, nsk, for nonadministrative-record establishments	2002.. N	X	X	446 418
	1997.. N	X	X	X	345 894
3361110YWY	Automobile manufacturing, nsk, for administrative-record establishments	2002.. N	X	X	236 136
	1997.. N	X	X	X	63 215

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
336111	Automobile manufacturing		
0090001	Total materials	X	60 584 704
	.....2002..	X	65 491 083
	.....1997..	X	9 919 814
33631200	Gasoline engines and parts specially designed for gasoline engines	X	10 536 759
	.....2002..	X	D
	.....1997..	X	D
33631803	Diesel engines and parts specially designed for diesel engines	X	6 020 664
	.....2002..	X	7 620 624
	.....1997..	X	1 118 330
33635007	Drive train components and parts	X	D
	.....2002..	X	6 020 664
	.....1997..	X	7 620 624
33621101	Car bodies	X	1 118 330
	.....2002..	X	D
	.....1997..	X	D
001900A6	Refrigeration compressors, compressor units, condensing units, and other heat transfer equipment	X	1 499 449
	.....2002..	X	2 026 003
	.....1997..	X	3 456 604
33633000	Shocks, struts, and other suspension equipment and parts	X	2 341 895
	.....2002..	X	1 843 636
	.....1997..	X	1 130 261
33639901	Exhaust systems and parts	X	16 160
	.....2002..	X	D
	.....1997..	X	D
33351501	Machine tool accessories, including cutting tools	X	459 916
	.....2002..	X	266 241
	.....1997..	X	53 503
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	D
	.....2002..	X	130 853
	.....1997..	X	D
33291207	Fluid power valves (hydraulic and pneumatic)	X	153 250
	.....2002..	X	186 439
	.....1997..	X	20 938
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	D
	.....2002..	X	D
	.....1997..	X	N
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	153 250
	.....2002..	X	186 439
	.....1997..	X	20 938
33399901	Fluid power filters (hydraulic and pneumatic)	X	D
	.....2002..	X	D
	.....1997..	X	N
00190087	Other transportation related fluid power products, hydraulic and pneumatic	X	4 168 702
	.....2002..	X	7 117 895
	.....1997..	X	58 230
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.)	X	170 801
	.....2002..	X	473 229
	.....1997..	X	1 060 386
33261100	Steel springs (excluding wire)	X	674 002
	.....2002..	X	574 259
	.....1997..	X	746 846
33251011	Motor vehicle metal hardware (lock units, door and window handles, hinges, etc.), excluding forgings	X	1 084 143
	.....2002..	X	D
	.....1997..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	D
	.....2002..	X	64 250
	.....1997..	X	D
33200049	Other fabricated metal products (excluding forgings)	X	D
	.....2002..	X	59 696
	.....1997..	X	65 814
33210000	Forgings	X	920 695
	.....2002..	X	1 284 894
	.....1997..	X	158 387
33100035	Castings, rough and semifinished	X	136 216
	.....2002..	X	152 749
	.....1997..	X	396 373
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	232 655
	.....2002..	X	D
	.....1997..	X	D
33299101	Ball and roller bearings (mounted or unmounted)	X	806 067
	.....2002..	X	681 006
	.....1997..	X	1 698 890
32621003	Pneumatic tires and inner tubes	X	1 055 294
	.....2002..	X	2 566 842
	.....1997..	X	2 536 052
32622001	Rubber and plastics hose and belting	X	416 836
	.....2002..	X	399 926
	.....1997..	X	733 808
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	1 097 884
	.....2002..	X	3 773 413
	.....1997..	X	1 949 771
33999103	Gaskets (all types), and packing and sealing devices	X	369 596
	.....2002..	X	258 784
	.....1997..	X	D
32610033	Fabricated plastics products (including components, housings, accessories, etc.), excluding gaskets, hose and belting	X	D
	.....2002..	X	16 347
	.....1997..	X	N
32720005	Glass and glass products (including windows and mirrors)	X	321 556
	.....2002..	X	N
	.....1997..	X	520 200
33636003	Seats (purchased separately) for automobiles, trucks, and buses	X	1 217 588
	.....2002..	X	525 034
	.....1997..	X	976 009
33636007	Seat covers, seat belts, and shoulder harnesses	X	162 043
	.....2002..	X	483 231
	.....1997..	X	96 017
33639911	Automotive air bag assemblies and parts	X	164 809
	.....2002..	X	1 104 438
	.....1997..	X	1 294 441
33636001	Automotive trimmings, textile (panels, headliners, etc.)	X	645 405
	.....2002..	X	766 210
	.....1997..	X	1 209 866
31411003	Carpeting	X	963 257
	.....2002..	X	
	.....1997..	X	
32700035	Ceramic and ceramic composite parts, components, and accessories	X	
	.....2002..	X	
	.....1997..	X	
32552002	Glues and adhesives	X	
	.....2002..	X	
	.....1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	
	.....2002..	X	
	.....1997..	X	
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	X	
	.....2002..	X	
	.....1997..	X	
33632100	Motor vehicle lighting fixtures (including headlights, taillights, running lights, and dome fixtures), excluding auto lamps	X	
	.....2002..	X	
	.....1997..	X	
33511003	Automotive lamps (bulbs and sealed beams)	X	
	.....2002..	X	
	.....1997..	X	
33591103	Storage batteries, automotive	X	
	.....2002..	X	
	.....1997..	X	
33431001	Automotive radios and loudspeakers	X	
	.....2002..	X	
	.....1997..	X	
33451400	Motor vehicle clusters, meters, and gauges (including speedometers and fuel level gauges), excluding electrical	X	
	.....2002..	X	
	.....1997..	X	
001900C1	Semiconductors and related devices and electronic control modules	X	
	.....2002..	X	
	.....1997..	X	

See footnotes at end of table.

Table 7. Materials Consumed by Kind: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
336111	Automobile manufacturing—Con.		
33411103	Purchased computers for incorporation into motor vehicles, trucks, and buses	X	193 311
	2002..	X	D
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	9 769 091
	2002..	X	
	1997..	X	13 115 159
00971000	Materials, ingredients, containers, and supplies, nsk	X	2 166 725
	2002..	X	
	1997..	X	599 920

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.